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10/521,965	01/21/2005	Jean-Michel Sauvage	0518-1081-1	2112
466 7590 11/12/2008 YOUNG & THOMPSON 209 Madison Street			EXAMINER	
			JOSEPH, TONYA S	
Suite 500 ALEXANDRI	A VA 22314		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/521.965 SAUVAGE ET AL. Office Action Summary Examiner Art Unit TONYA JOSEPH 3628 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07/17/2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| Notice of References Cited (PTO-892) | Notice of Professors Patent Drawing Review (PTO-948) | Paper No(s)Mail Date. | Si | Notice of Information Disclosure Statement(s) (PTO/SE/DE) | Si | Notice of Informal Patent Ary lication | Paper No(s)Mail Date | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Notice of Informal Patent Ary lication | Si | Other: | Si | Othe

Page 2

Application/Control Number: 10/521,965

Art Unit: 3628

### DETAILED ACTION

### Status of Claims

Claims 1-11 have been previously examined. Claims 1-11 have been amended. Co claims have been added. No claims have been cancelled. Thus claims 1-11 are presented for examination.

### Response to Arguments

 Applicant's arguments filed 07/17/2008 have been fully considered but they are not persuasive.

Applicant argues with respect to claim 1 that Hornick does not teach booking limits are determined in consideration of a pre-defined level of expected revenue. Examiner disagrees. Hornick plainly teaches that the seat inventory control subsystem formulates a plurality of LaGrange multipliers each representing an EMSR or Expected Marginal Seat Revenue. Hornick further teaches that the formula further maximizes the total revenue for a flight (see Col 5 lines 16-24).

Applicant further asserts that each flight leg in Hornick is a separate entity in the perspective 0of determining available seats. Examiner disagrees. The system of Hornick teaches a booking limit is calculated for each itinerary/fare class in the flight network database (see Col. 5 lines 46-49).

Applicant asserts that Hornick does not teach "for the given class of service (k) on the given transport service (Fi), an overall number of available seats XFAVFj k (Y) is determined at the predefined level of expected revenue (Y) as a function of the different number of seats available locally..., " as in amended claim 1. Examiner disagrees.

Application/Control Number: 10/521,965

Art Unit: 3628

Hornick teaches a leg fare is computed for each fare class based on the EMSR or Expected Marginal Seat Revenue thereby preserving the sense of the fare as a measure of the contribution of a passenger to total revenue (see Col. 12 lines 36-65). Applicant further asserts with respect to claim 2 that Hornick does not disclose numbers of seats available locally of the two classes of service. Examiner disagrees. Homick plainly teaches multiple classes of service and the determination of seat availability (see Col. 6 lines 1-20).

2. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., no calculation is linked to other legs) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant's arguments with respect to Hornick and Talluri are not persuasive and the rejections stand.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-2 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hornick U.S. Patent No. 5,255,184.

Page 4

Application/Control Number: 10/521,965 Art Unit: 3628

(aVFik(Y), avFik(Y)) (see Col. 6 lines 48-6).

- 5. As per Claim 1, Homick teaches at least one other class of service (k') of another transport service (Fj) is selected (see Col. 5 lines 2-11); the number of locally available seats aVFjk,(Y) is determined for the class of service (k') of the another transport service (Fj) at the predefined level of expected revenue

  (Y) (see Col. 6 lines 48-56 and Col. 5 lines 46-51); for the given class of service (k) on the given transport service (fi), an overall number of available seats XFAVFjk(Y) is determined at the predefined level of expected revenue (Y) as a function of the different number of seats available locally
- 6. As per Claim 2, Hornick teaches the method of claim 1 as described above. Hornick further teaches the overall number of available seats XFAVFik(Y) is determined by adding up the numbers of seats available locally (aVFik(Y), avfjk(Y)) of the two classes of service (k, k') (see Col. 6 lines 48-56and Col. 7 lines 1-45).
- As per Claim 10, Hornick teaches the method of claim 1 as described above.
   Hornick further teaches the steps in the process are carried out each time there is an availability request from a customer (see Col. 6 lines 1-20).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/521,965 Page 5

Art Unit: 3628

 Claims 3-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hornick in view of Talluri U.S. Patent No. 6.263.315 B1.

- As per Claim 3, Homick teaches the method of claim 1 as described above.
   Hornick does not explicitly teach the method taught by Talluri
- to each class of service a boundary transfer value (SPmax) is assigned that corresponds to the maximum number of reservation requests for the class of service that can be transferred to seats on other classes of service (see Col. 2 lines 10-14);
- for each class of service, a number of transferable reservation requests (SP(Y)) is determined that is equal to:
- either zero, if the number of seats available locally for said class of service (k) is positive (see Col. 2 lines 10-14).

for each class of service, a number of reservation requests that can be accepted (SA(Y) is determined that is equal to:

- or the number of seats available locally for said class of service avk(Y) if this number is positive (see Col. 1 lines 65-67 and Col. 2 lines 1-27). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the method of Hornick to include the teachings of Talluri to incorporate booking limitations, as taught by Talluri Col. lines 10-15).
- 11. As per Claim 4, Hornick in view of teaches the method of claim 1 as described above. Hornick does not explicitly teach the limitation taught by Talluri to each class of service a boundary acceptance value (SAmax) is assigned that corresponds to the maximum number of seats in said class of service that can be used to transfer

Application/Control Number: 10/521,965

Art Unit: 3628

reservation requests on other classes of service; - an upper limit that is equal to the boundary acceptance value (SAmax) is assigned to the number of reservation requests that can be accepted (see Col. 2 lines 1-22 and Col. 3 lines 8-16). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the method of Hornick to include the teachings of Talluri to allow a maximum available capacity for a demand class, as taught in Talluri Col. 3 lines 14-16.

As per Claim 5. Hornick teaches the method of claim 3 as described above. 12. Hornick further teaches a single other class of service (k') that belongs to another transport service (Fi) is selected: - the total acceptance capacity (TSAk) from the other class of service (k') for the given class of service (k) is determined by selecting the minimum value from the boundary transfer value (SPFikmax) of the given class of service (k) and the number of reservation requests that can be accepted (SAFjk'(Y)) on said other class of service (k') (see Col. 24 lines 41-60), the total transfer capacity (TSPk) on said other class of service (k') is determined on the given class of service (k) by selecting the minimum value from the number of transferable reservation requests for the other class of service (k') (SPFik' (Y)) (see Col. 24 lines 41-60) and the number of reservation requests that can be accepted on the given class of service (k) (SAFik(Y)), the overall number of available seats XFAVFik(Y) is calculated by • adding the number of seats available locally aVFik(Y) and the total acceptance capacity TSAFik(Y) (see Col. 25 lines 11-22). The limitation, "and subtracting therefrom the total transfer capacity TSPFik(Y)" is merely a statement of intended use and as such is afforded little patentable weight.

Application/Control Number: 10/521,965 Page 7

Art Unit: 3628

13. As per Claim 6, Hornick in view of Talluri teaches the method of clam 4 as described above. Hornick further teaches for each class of service (k) of a given transport service (Fi), the classes of service (k') of the transport service are selected that have a lower index to which the reservation requests on the class of service of the given transport service (Fi) can be transferred (see Col. 12 lines 36-49). Hornick does not explicitly teach the limitation taught by Talluri, an index i is assigned to each transport service, whereby the value of said index increases with the time of departure, (see Col. 6 lines 24-30, Examiner is interpreting the threshold value to have the equivalent effect of an index based on a departure time). It would been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the method of Hornick to include the teachings of Talluri to assign a weigh to a parameter lines 55-59. The limitation, "a transport service chain (Fi) is formed that has successive departure times and where each departure time has a selected class of service (k, k')" is merely a statement of intended result and as such is afforded little patentable weight.

14. As per Claim 7, Hornick in view of Talluri teaches the method of claim 6 as described above. Hornick further teaches the total acceptance capacity TSAFik(Y) for the class of service (k) is determined by selecting the minimum value from the boundary transfer value(SPFikmax) of the given class of service (k) and the sum of the numbers of reservation requests that can be accepted (SAFjk,(Y)) for the classes of service (k') of transport services (Fj) to which the given class of service (k) can be transferred (see Col. 24 lines 41-60).

Application/Control Number: 10/521,965 Art Unit: 3628

- 15. As per Claim 8, Hornick in view of Talluri teaches the method of claim 7 as described above. Hornick further teaches the total transfer capacity TSPFik from all of the other classes of service to a class of service (k) is determine from the update of the number of reservation requests that can be accepted to said class of service (k) (see Co. 24 lines 41-60 and Col. 5 lines 51-65).
- 16. As per Claim 9, Hornick in view of Talluri teaches the method of claim 8 as described above. Hornick further teaches the overall number of available seats XFAVFik(Y) is calculated by adding the number of seats available locally aVFik(Y) and the total acceptance capacity TSAFik(Y) (see Col. 25 lines 11-22). The limitation, "and subtracting therefrom the total transfer capacity TSPFik(Y)" is merely a statement of intended use and as such is afforded little patentable weight.
- 17. As per Claim 11, Hornick in view of Talluri teaches the method of claim 6 as described above. Hornick further teaches the total transfer capacity TSPFik from all of the other classes of service to a class of service (k) is determine from the update of the number of reservation requests that can be accepted to said class of service (k) (see Co. 24 lines 41-60 and Col. 5 lines 51-65).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Application/Control Number: 10/521,965

Art Unit: 3628

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TONYA JOSEPH whose telephone number is (571)270-1361. The examiner can normally be reached on Mon-Fri 7:30am-5:00pm First Fridays off

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Hayes can be reached on 571 272 0847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the 
Patent Application Information Retrieval (PAIR) system. Status information for 
published applications may be obtained from either Private PAIR or Public PAIR. 
Status information for unpublished applications is available through Private PAIR only.

Page 10

Application/Control Number: 10/521,965

Art Unit: 3628

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tonya Joseph Examiner Art Unit 3628

/JOHN W HAYES/ Supervisory Patent Examiner, Art Unit 3628